

WHAT IS CLAIMED IS:

1. An air-conditioning system comprising:
  - a plurality of indoor units and a plurality of outdoor units each including a compressor, said air-conditioning system being operatively controlled by transmitting and receiving the operation data between each of said indoor units and the corresponding one of said outdoor units;
  - an outdoor transmission/receiving unit included in each of said outdoor units for transmitting by superposing the operation data on an outdoor power line for supplying power to said outdoor units and receiving said operation data superposed on said outdoor power line;
  - an indoor transmission/receiving unit included in each of said indoor units for transmitting by superposing the operation data on an indoor power line for supplying power to said indoor units and receiving said operation data superposed on said indoor power line;
  - an outdoor conversion unit for transmitting by converting said operation data superposed on said outdoor power line into a radio signal and receiving and superposing said radio signal on said outdoor power line; and
  - an indoor conversion unit for transmitting by converting said operation data superposed on said indoor power line into a radio signal and receiving and

superposing said radio signal on said indoor power line.

2. An air-conditioning system according to Claim 1,

wherein said radio signal contains said operation data and an identification signal for determining whether said operation data is required to be received or not.

3. An air-conditioning system according to Claim 1,

wherein a remote controller for setting the temperature includes a transmission/receiving unit for receiving said radio signal.

4. An air-conditioning system according to Claim 1,

wherein said radio signal is received by a portable telephone and said operation data are displayed on said portable telephone.

5. An air-conditioning system according to Claim 1,

wherein a radio signal is transmitted from a portable telephone and received by selected one of said outdoor conversion unit and said indoor conversion unit thereby to control the operation of said system.

6. An air-conditioning system according to Claim 1,

wherein said radio signal contains said operation data and a source address and a destination

address.

7. An air-conditioning system according to Claim 1,

wherein said radio signal contains said operation data and an identification signal for determining whether said operation data is required to be received or not, and upon determination that said operation data is required to be received according to said identification signal, said outdoor conversion unit and said indoor conversion unit sample said radio signal and convert said radio signal into a power-superposed signal.

8. An air-conditioning system according to Claim 1,

wherein said operation data is received as a radio signal by a portable telephone, said operation data being stored in said portable telephone.